

WHAT IS CLAIMED IS:

1. An optical waveguide module comprising
an optical waveguide component having an auxiliary
5 connection member connected to an end of an optical waveguide
chip, and

at least one array member for attaching an end of at
least one optical fiber to a connection member to be
connected to said auxiliary connection member, wherein

10 said optical waveguide component and said array member
are connected to each other via said auxiliary connection
member and said connection member, and

an optical waveguide exposed from the end of said
optical waveguide chip is in direct contact with a core of
15 said optical fiber exposed from an end of said array member.

2. An optical waveguide module comprising

an optical waveguide component having an auxiliary
connection member connected to an end of an optical waveguide
chip, and

20 at least one array member for attaching an end of at
least one optical fiber to a connection member to be
connected to said auxiliary connection member, wherein

said optical waveguide component and said array member
are connected to each other via said auxiliary connection
25 member and said connection member,

a presser member is disposed to press at least one of
said optical waveguide chip and said optical fiber in a
direction of connection, and

an optical waveguide exposed from the end of said
30 optical waveguide chip is in direct contact with a core of
said optical fiber exposed from an end of said array member.

3. The optical waveguide module according to claim 2,
wherein

said presser member is disposed across the connection

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are protruded so as to prevent said projecting optical fiber from contacting with said auxiliary connection member.

10. The optical waveguide module according to claim 6,
wherein

said optical waveguide component and said array member
are protruded so as to prevent said projecting optical fiber
5 from contacting with said auxiliary connection member.

11. The optical waveguide module according to claim 5,
wherein

a glass layer is interposed in between said auxiliary
connection member and said optical waveguide chip so as to
10 prevent the region around the core of said optical fiber from
contacting with said auxiliary connection member.

12. The optical waveguide module according to claim 6,
wherein

a glass layer is interposed in between said auxiliary
15 connection member and said optical waveguide chip so as to
prevent the region around the core of said optical fiber from
contacting with said auxiliary connection member.

13. The optical waveguide module according to claim 2,
wherein

20 said optical waveguide component is formed so as to
allow a region around said optical waveguide including said
optical waveguide to project from the other part.

14. The optical waveguide module according to claim 2,
wherein

25 said optical waveguide component has said auxiliary
connection member bonded thereto by means of an adhesive
layer 20 μ m or less in thickness.

15. The optical waveguide module according to claim 2,
wherein

30 in the connection between said optical waveguide
component and said array member, an optical signal passing
through where the optical waveguide formed in said optical
waveguide component is in direct contact with the core of
said optical fiber has a maximum power of 300mW or more per

16. An optical waveguide module comprising
a first array member with a plurality of optical fibers
having ends attached to a first connection member,

an optical waveguide chip having an input and output end face and an optical waveguide for multiplexing a plurality of optical signals having different wavelengths

said optical waveguide module wherein

15 an auxiliary connection member is attached to said
output end face of said optical waveguide chip,

said second array member is coupled to said output end

a presser member for pressing said auxiliary connection member and said second array member in a direction of connection is disposed across said auxiliary connection

a core of said optical waveguide exposed from said output end face of said optical waveguide chip is in direct contact with a core of said optical fiber exposed from an end of said second array member.

said presser member is disposed across connections between said optical waveguide chip and said first array member and between said optical waveguide chip and said

18. The optical waveguide module according to claim 16,
wherein

an optical signal passing through where the core of
5 said optical waveguide is in direct contact with the core of
said optical fiber has a maximum power of 300mW or more per
port.

19. The optical waveguide module according to claim 16,
wherein

10 an optical signal passing through where the core of said optical waveguide is in direct contact with the core of said optical fiber has a maximum power of 300mW or more per port at said input end face, and

an optical signal passing through where the core of
15 said optical waveguide is in direct contact with the core of
said optical fiber has a maximum power of 300mW or more per
port at said output end face.

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